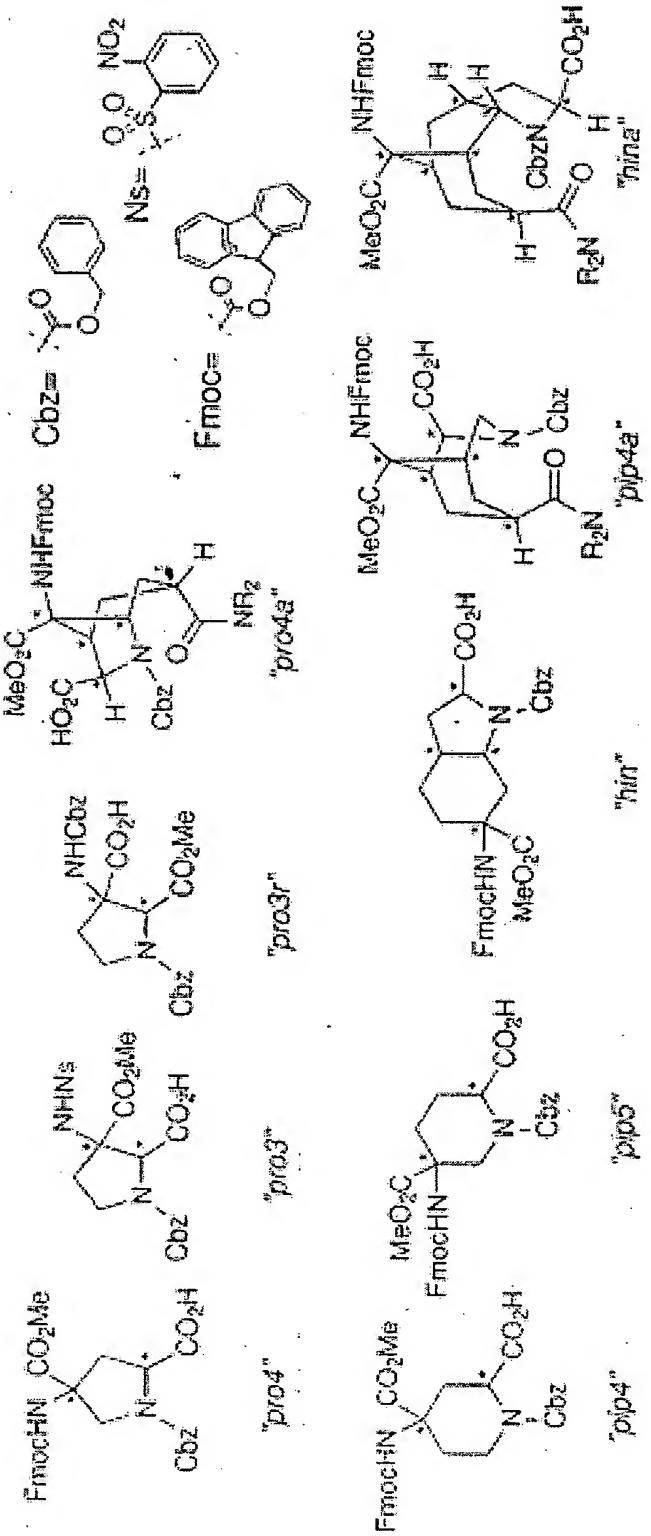


Figure 1

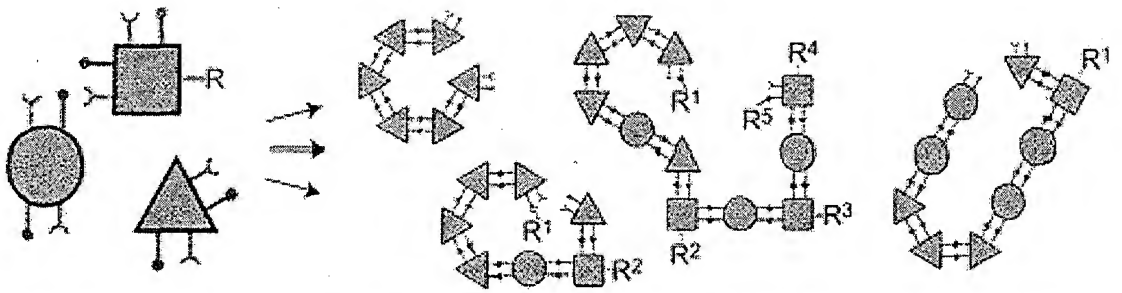


Figure 2

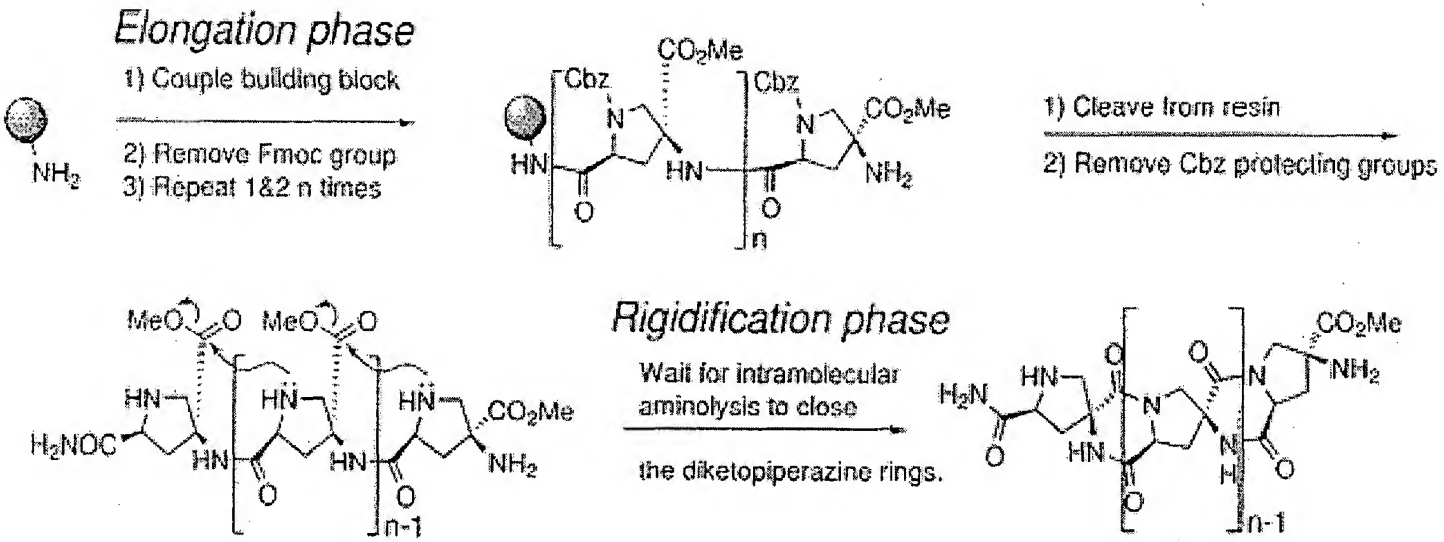


Figure 3

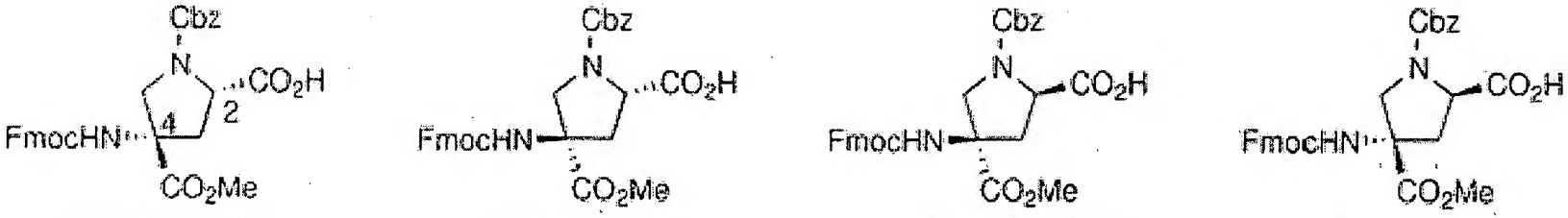


Figure 4

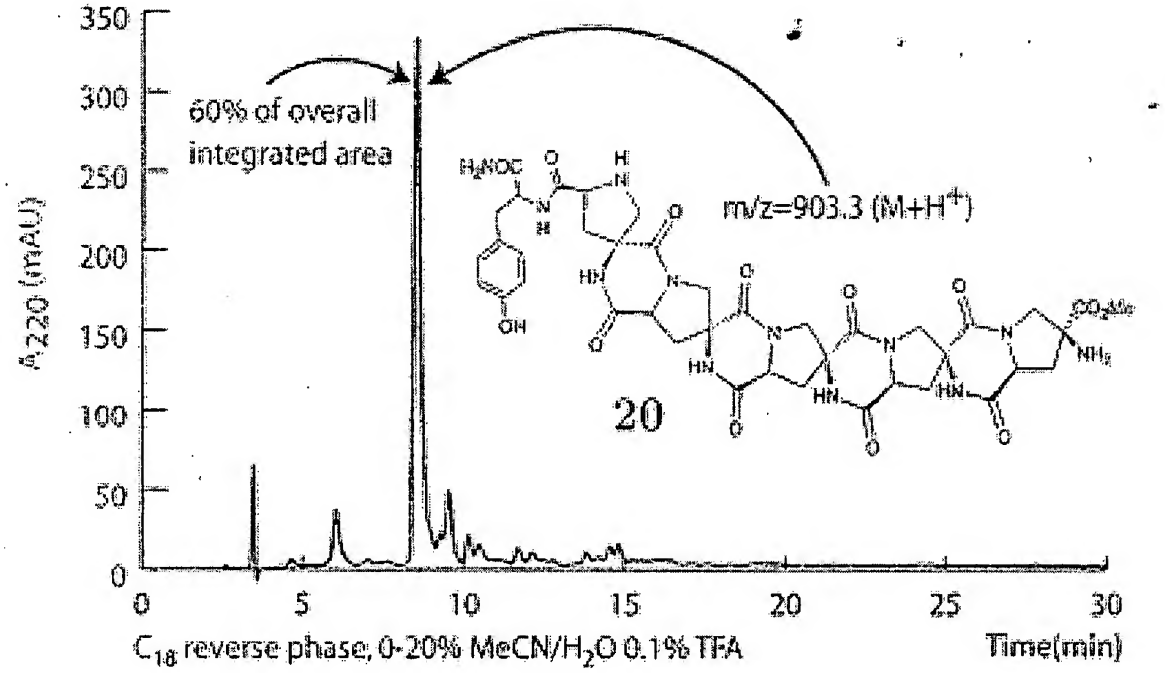


Figure 5

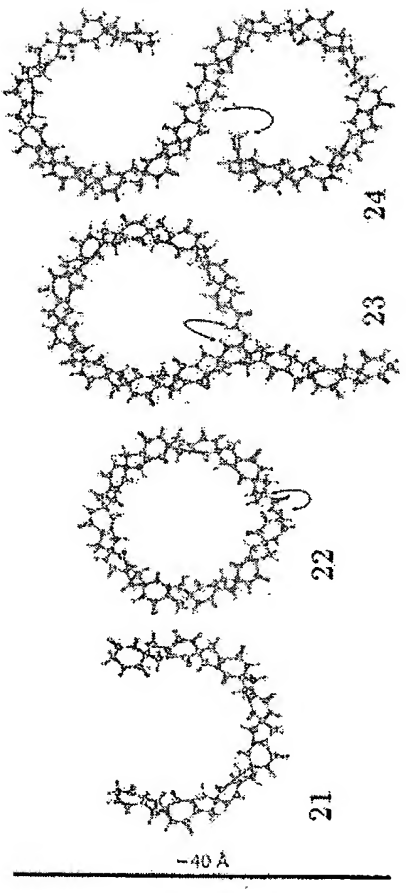
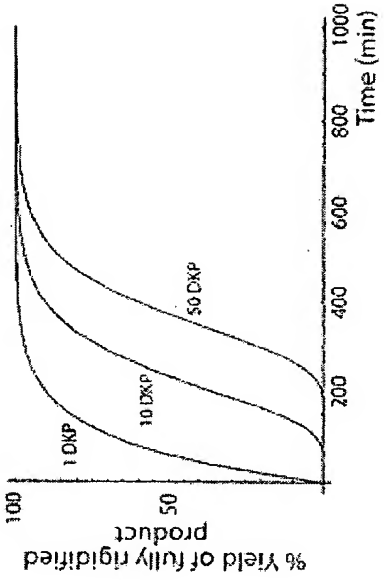


Figure 6

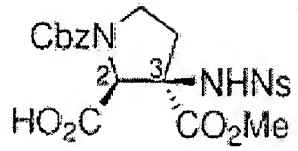


$P_n(t) = e^{-nkt}(e^{kt} - 1)^n$

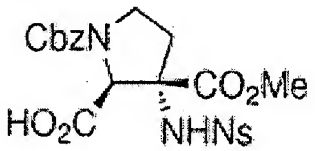
use $k = 0.0116\ min^{-1}$ ($t_{1/2} = 60$ min)

n = number of diketopiperazines

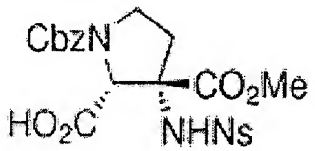
Figure 7



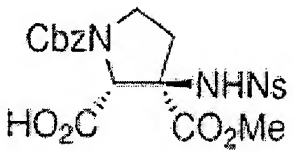
35:*pro3(2S3R)*



36:*pro3(2S3S)*

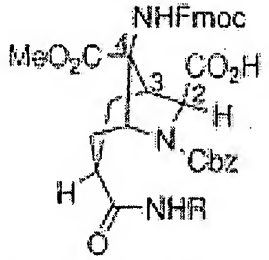


37:*pro3(2R3S)*

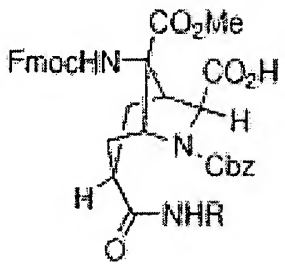


38:*pro3(2R3R)*

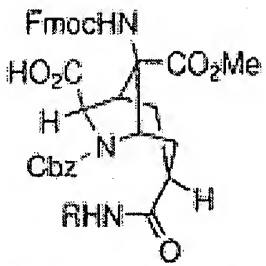
Figure 8



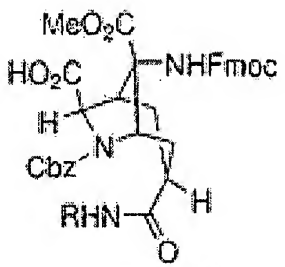
88:*pro4a(2S3R4S)NHR*



89:*pro4a(2S3R4R)NHR*



91:*pro4a(2R3S4R)NHR*



92:*pro4a(2R3S4S)NHR*

Figure 9

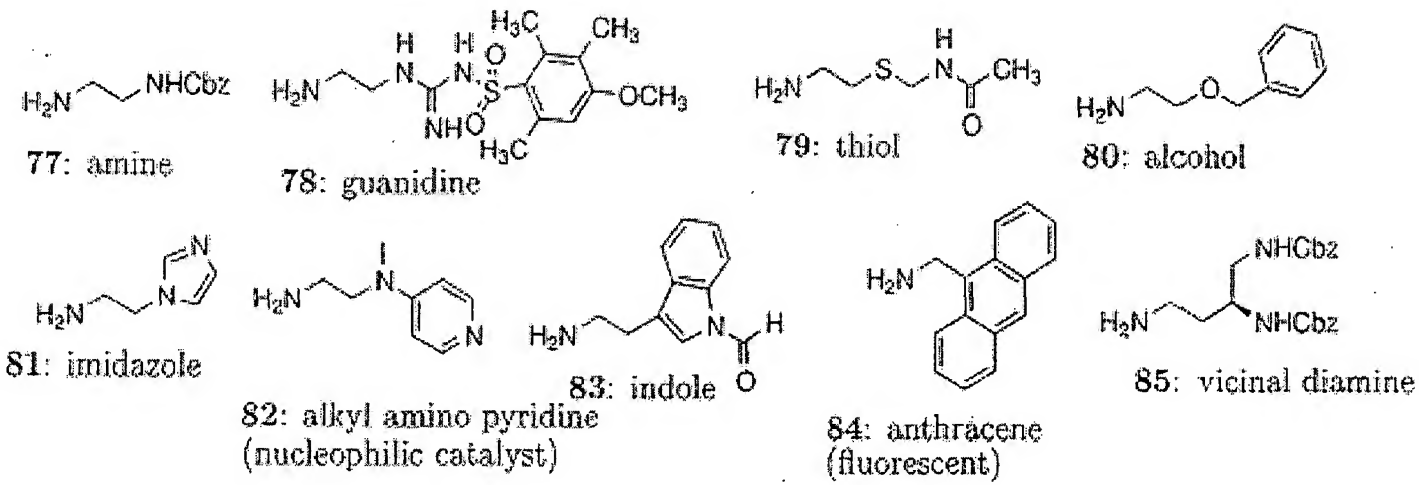


Figure 10

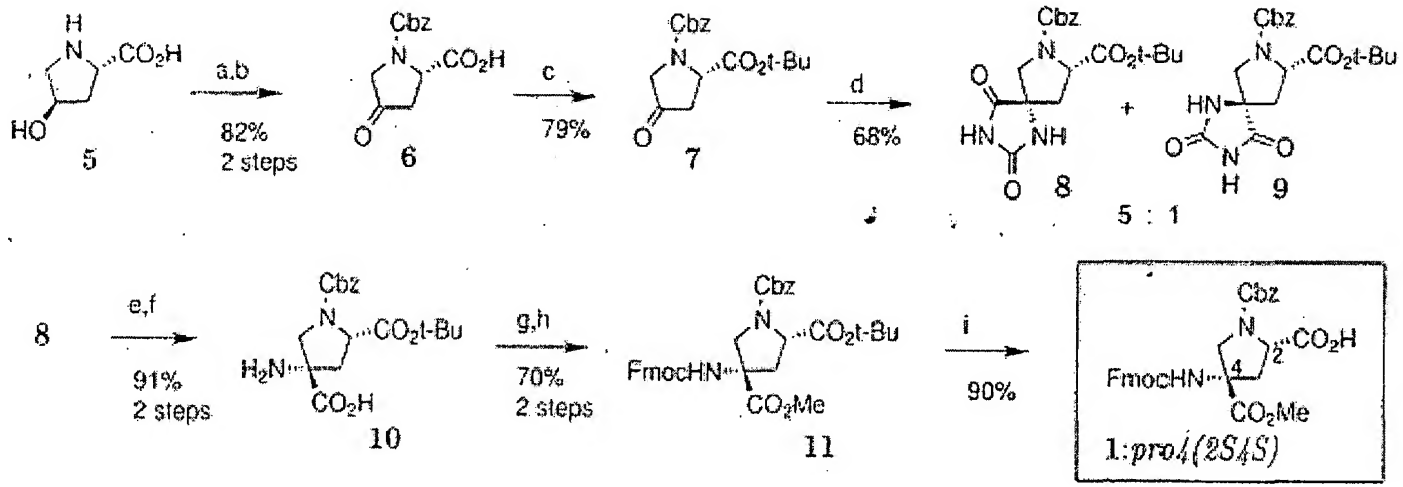


Figure 11

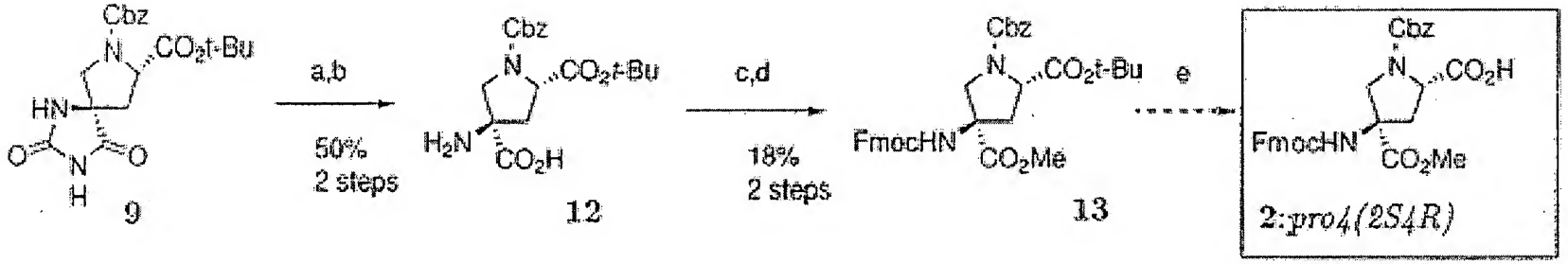


Figure 12

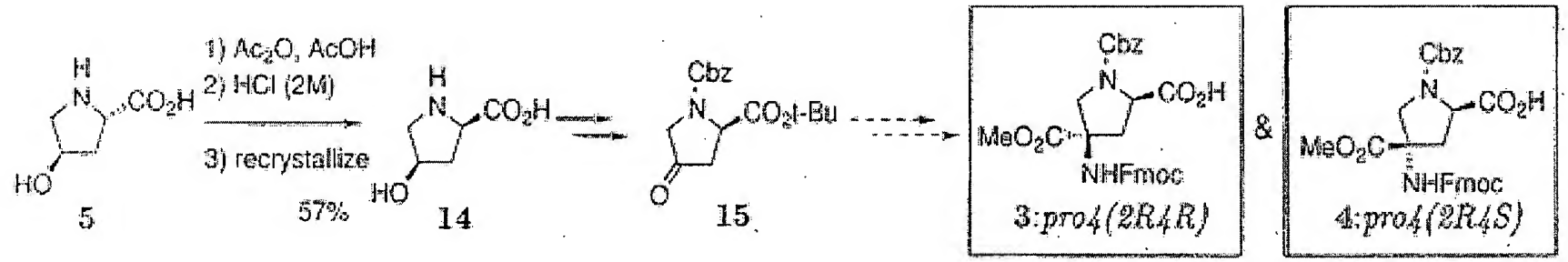


Figure 13

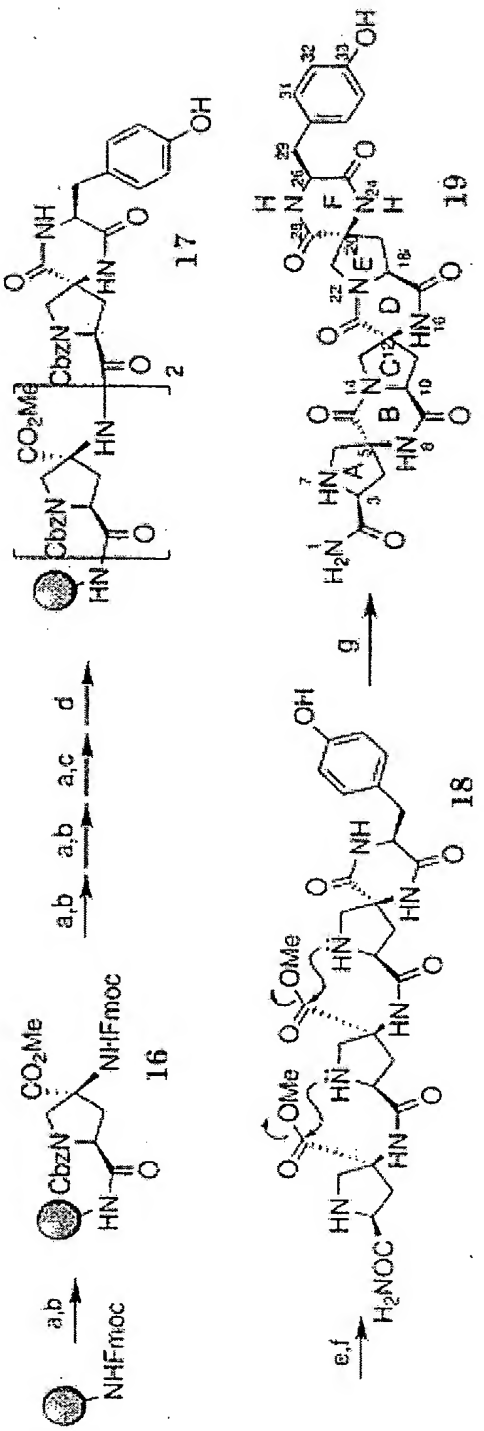


Figure 14

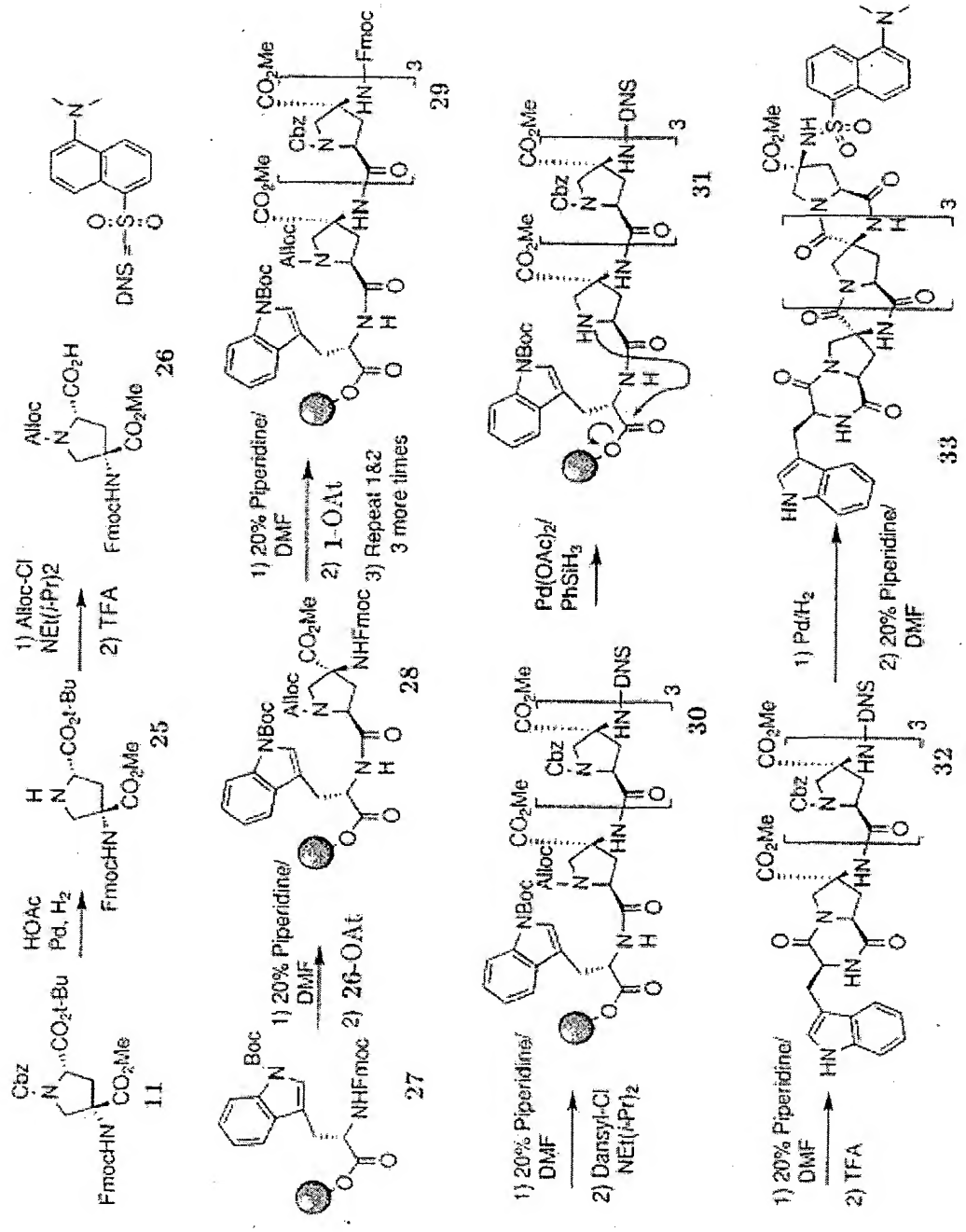


Figure 15

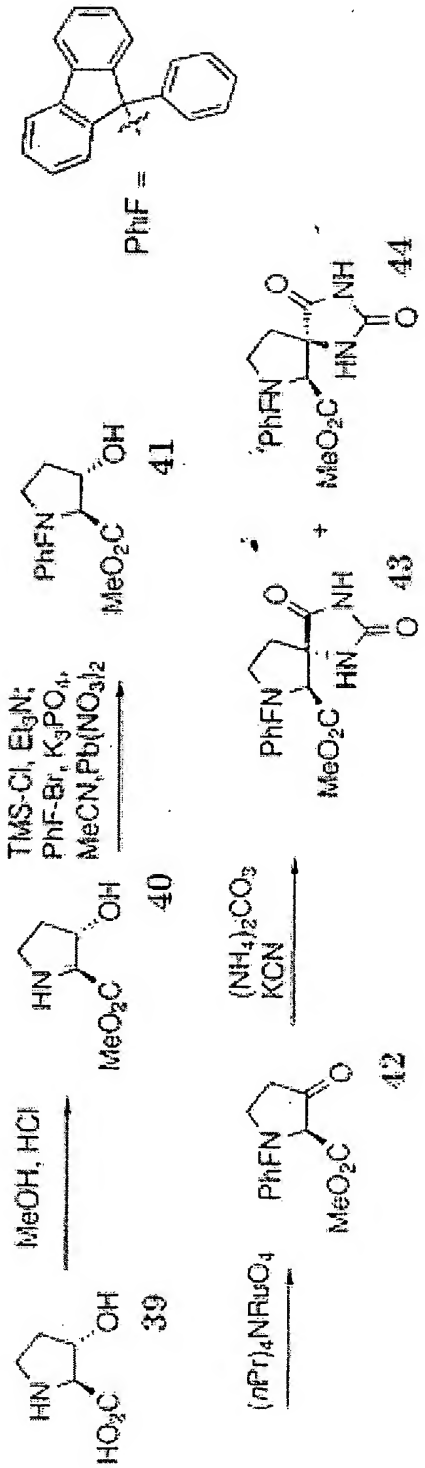


Figure 16

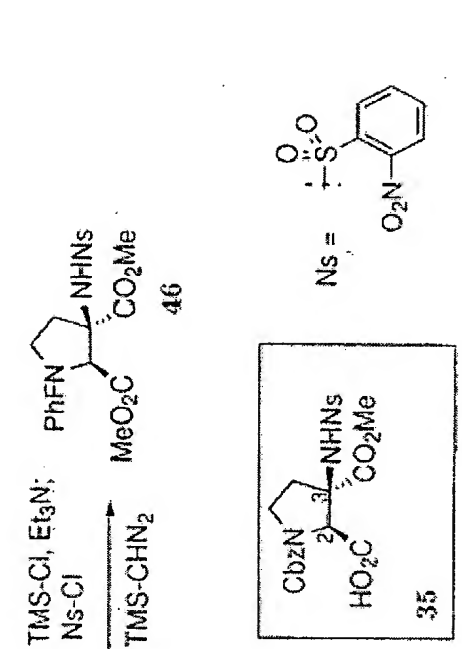


Figure 17

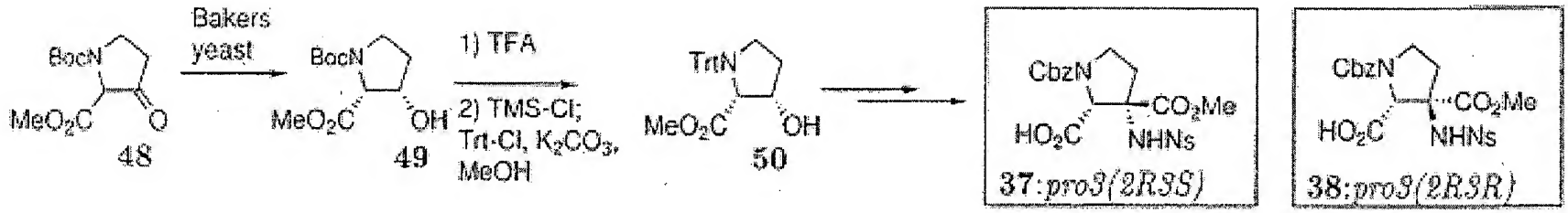


Figure 18

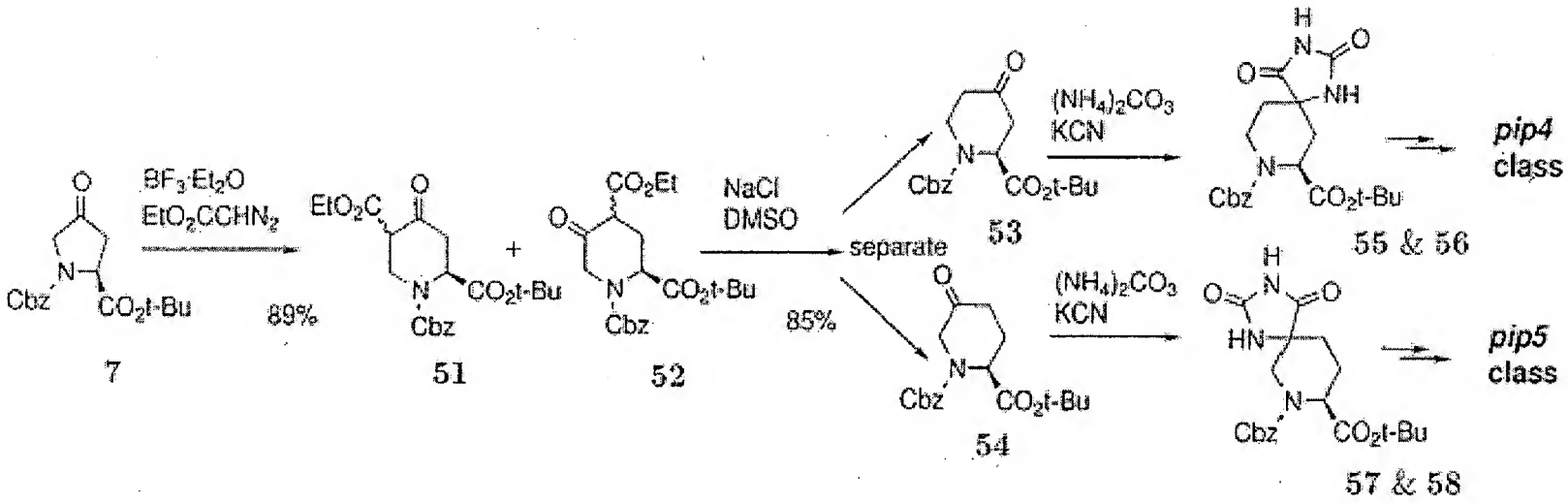


Figure 19

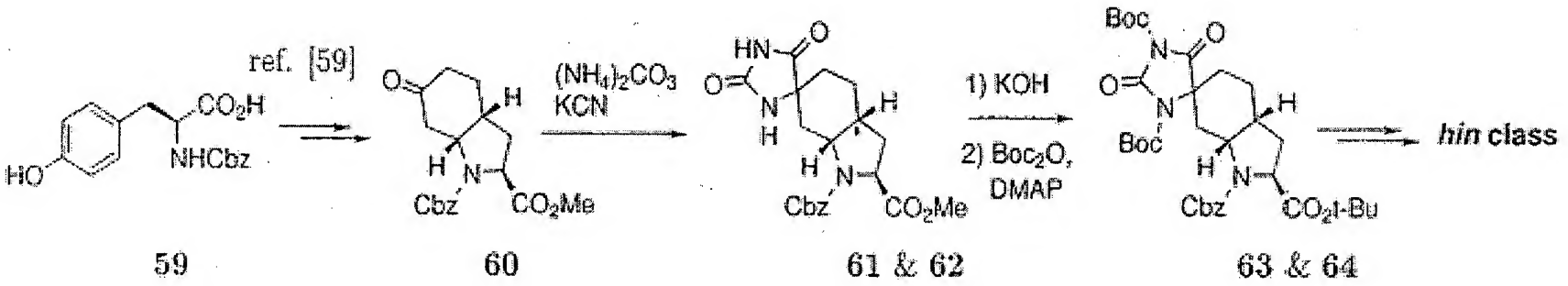


Figure 20

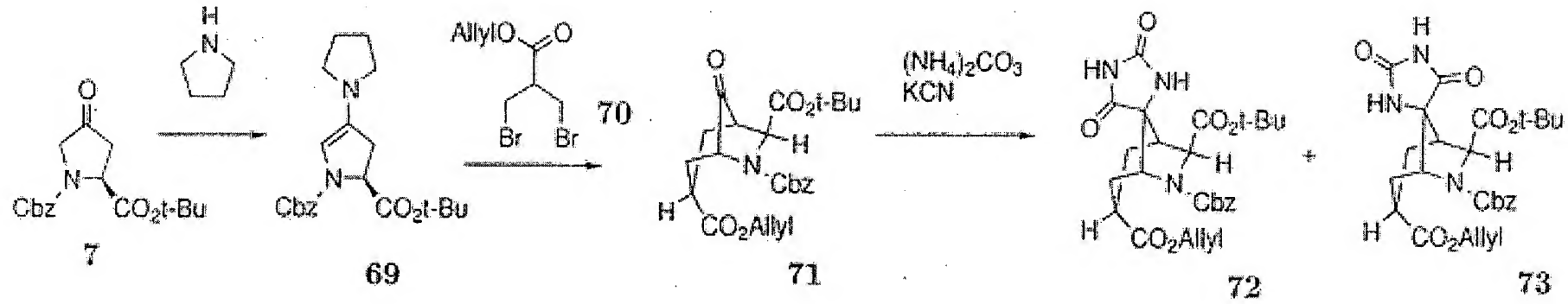


Figure 21

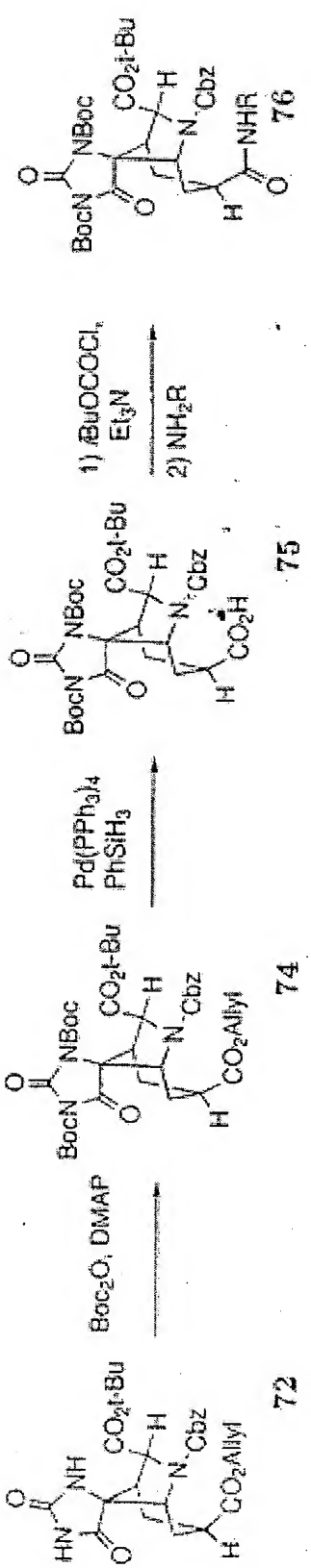


Figure 22

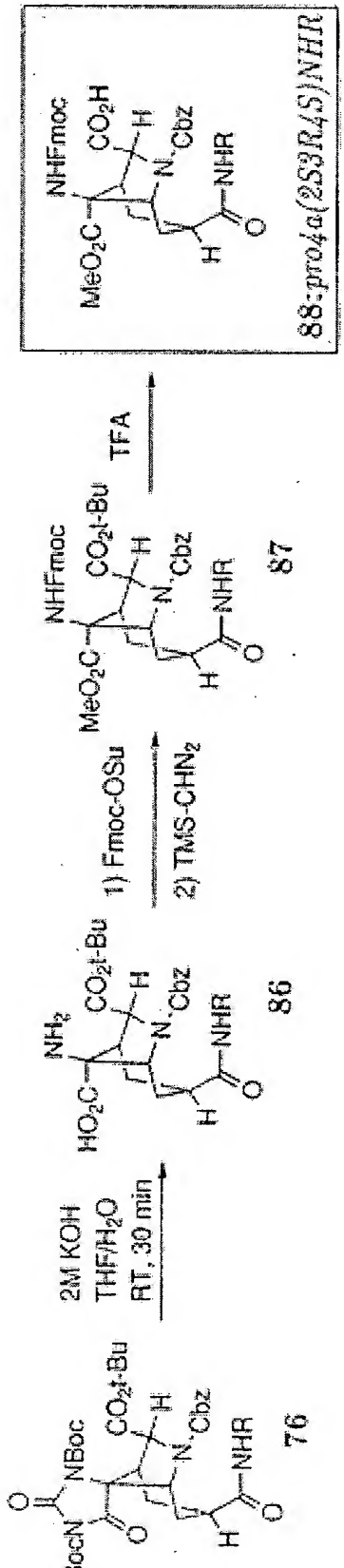


Figure 23

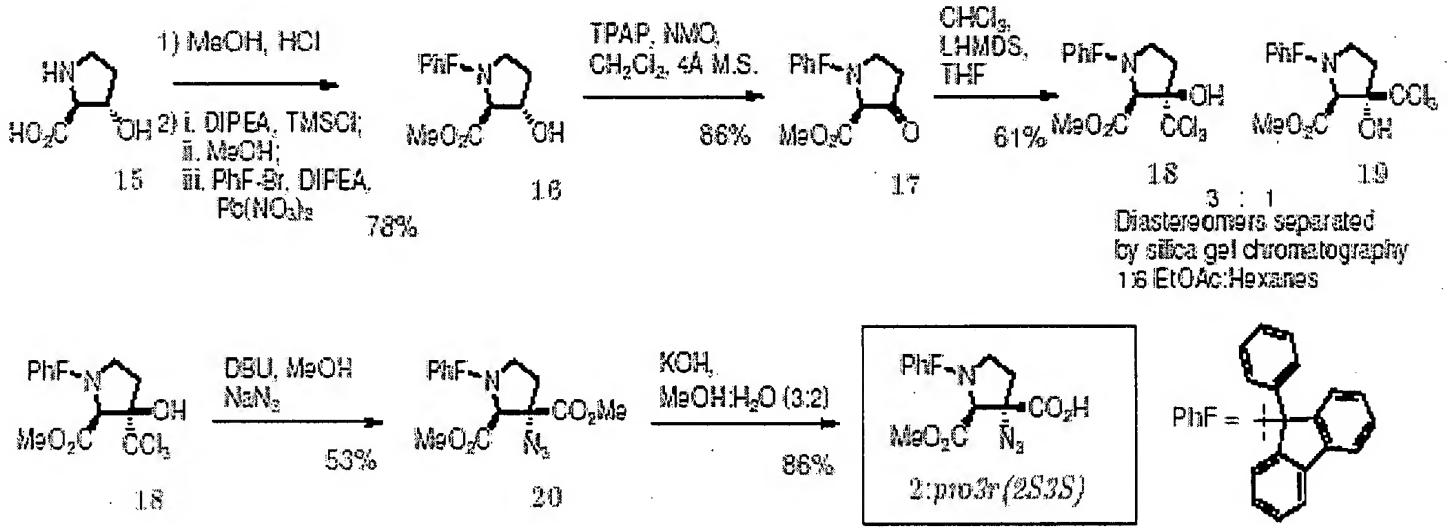


Figure 24

Compound 19

1	H_2N-1:*pro4(2S4S)*	2	1:*pro4(2S4S)*	3	1:*pro4(2S4S)*	4	cyclo-Tyr

Figure 25

Compound **21** Formula weight: 1081.0 daltons

1	*cyclo-Gly*	2	**1**:*pro4(2S4S)*	3	**3**:*pro4(2R4R)*	4	**1**:*pro4(2S4S)*
5	**3**:*pro4(2R4R)*	6	**1**:*pro4(2S4S)*	7	**3**:*pro4(2R4R)*	8	**1**:*pro4(2S4S)*
9	*cyclo-Gly*						

Compound **22** Formula weight: 1455.3 daltons

1	H_2N-**1**:*pro4(2S4S)*	2	**3**:*pro4(2R4R)*	3	**1**:*pro4(2S4S)*	4	**3**:*pro4(2R4R)*
5	**1**:*pro4(2S4S)*	6	**3**:*pro4(2R4R)*	7	**1**:*pro4(2S4S)*	8	**3**:*pro4(2R4R)*
9	**1**:*pro4(2S4S)*	10	**3**:*pro4(2R4R)*	11	*cyclo-Gly*		

Compound **23** Formula weight: 1869.7 daltons

1	H_2N-**3**:*pro4(2R4R)*	2	**1**:*pro4(2S4S)*	3	**3**:*pro4(2R4R)*	4	**1**:*pro4(2S4S)*
5	**3**:*pro4(2R4R)*	6	**1**:*pro4(2S4S)*	7	**3**:*pro4(2R4R)*	8	**1**:*pro4(2S4S)*
9	**3**:*pro4(2R4R)*	10	**3**:*pro4(2R4R)*	11	**3**:*pro4(2R4R)*	12	**3**:*pro4(2R4R)*
13	**3**:*pro4(2R4R)*	14	*cyclo-Gly*				

Compound **24** Formula weight: 2500.0 daltons

1	*cyclo-Gly*	2	**1**:*pro4(2S4S)*	3	**3**:*pro4(2R4R)*	4	**1**:*pro4(2S4S)*
5	**3**:*pro4(2R4R)*	6	**1**:*pro4(2S4S)*	7	**3**:*pro4(2R4R)*	8	**1**:*pro4(2S4S)*
9	**3**:*pro4(2R4R)*	10	**4**:*pro4(2R4S)*	11	**1**:*pro4(2S4S)*	12	**1**:*pro4(2S4S)*
13	**3**:*pro4(2R4R)*	14	**1**:*pro4(2S4S)*	15	**3**:*pro4(2R4R)*	16	**1**:*pro4(2S4S)*
17	**3**:*pro4(2R4R)*	18	**1**:*pro4(2S4S)*	19	**3**:*pro4(2R4R)*		

Figure 26